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(57) Abstract: The present invention relates to a method for separating a mixture of hydrocarbons into fractions enriched in lin-  
ear, mono-branched, or multi-branched hydrocarbons. In particular, the present invention relates to a method of separating mono-  
branched alkanes from a mixture of alkanes containing multi-branched; mono-branched and linear alkanes, by selectively adsorbing  
said mono-branched alkanes on a zeolitic adsorbent. The zeolitic adsorbent MCM-22 is particularly suitable for carrying out the  
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